

ABSTRACT

In an air conditioner provided with a refrigerant circulation circuit having a variable displacement compressor (11), there is provided a flow rate sensor (21) for detecting a collision force of a refrigerant flowing in the refrigerant circulation circuit to produce a collision force detection value. A discharge capacity of the variable displacement compressor is controlled referring to the collision force detection value. It may also be possible to control a discharge capacity such that a valve portion serving to introduce a discharged refrigerant into a crank chamber is applied with a collision force of the refrigerant and an electromagnetic force in opposite directions and, when the collision force is greater than the electromagnetic force, the valve portion is opened to cause the collision force to approach the electromagnetic force.